

FIGURE 1



FIGURE 2

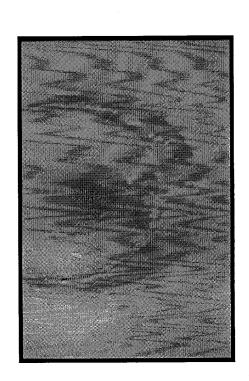


FIGURE 4



FIGURE 3

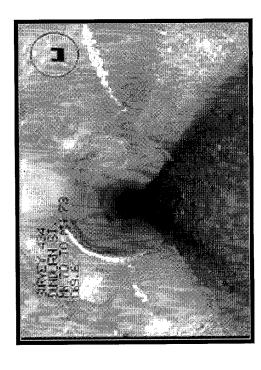


FIGURE 5

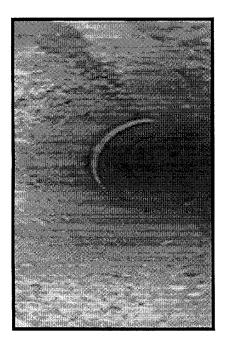


FIGURE 6

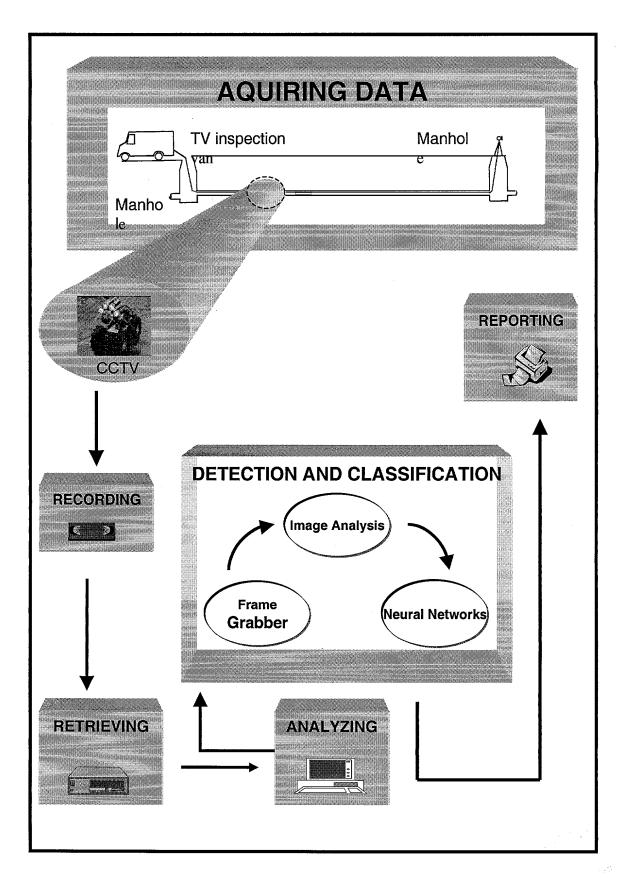


FIGURE 7

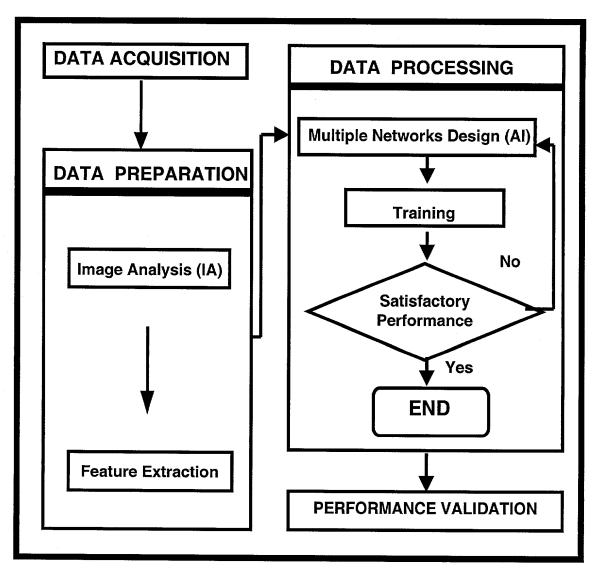


FIGURE 8

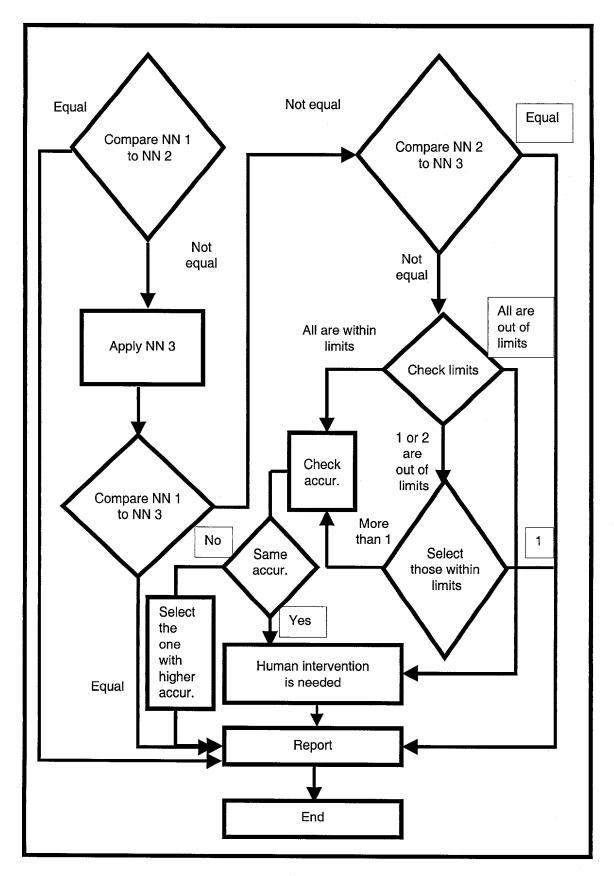


FIGURE 9

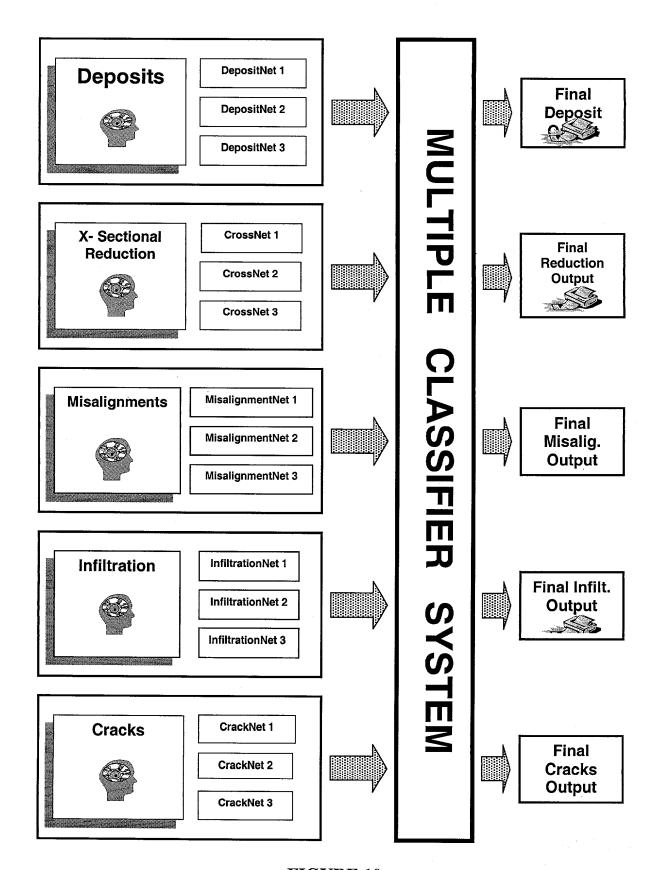


FIGURE 10

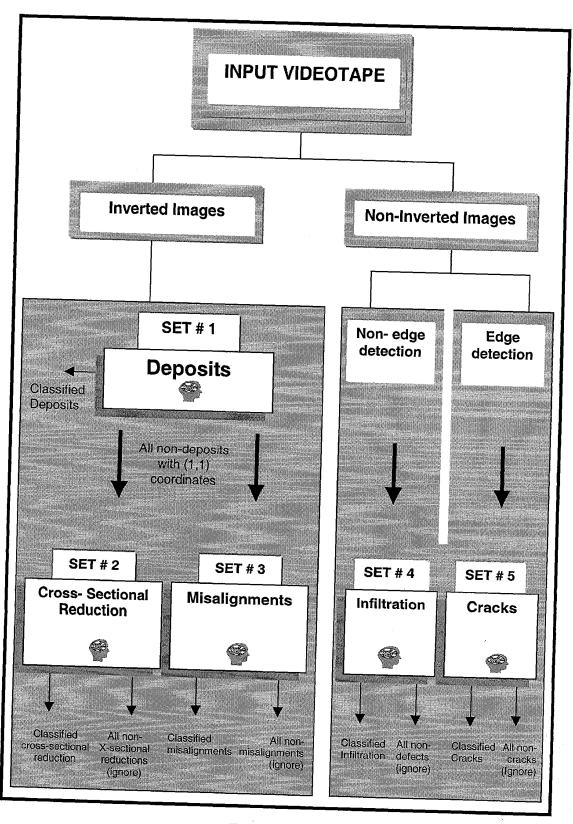


FIGURE 11

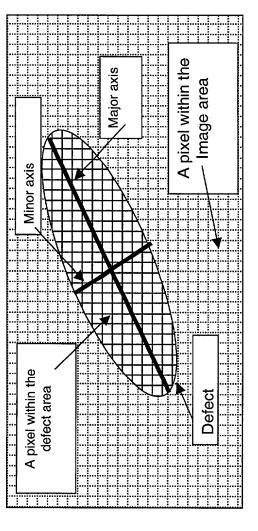


FIGURE 12

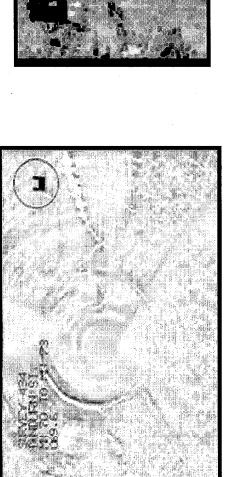


FIGURE 15

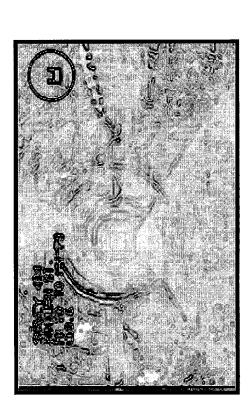


FIGURE 14

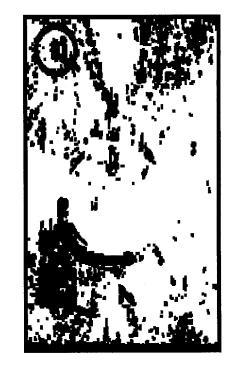


FIGURE 16



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136.00	111.10	21.24	244.56	-	4.30	65.70	17.86
2159.00	188.20	70.57	282.51	£.	5.62	368.13	61.65
292.00	131.72	32.81	202.45	7	3.68	89.01	31.38
192.00	109.64	23.06	202.17	5.	1.82	118.71	24.13
241.00	130.94	42.37	178.54	25	96.6	101.64	23.34
1345.00	168.22	65.38	259.09	*	7.75	399.50	95.43
185.00	140.76	49.97	205.39	···	84.36	68.87	17.46
356.00	143.16	44.28	176.45	9	3.95	96.43	29.89
177.00	137.53	39.02	201.72	27	5.62	56.63	18.03
591.00	142.98	50.42	37.24	12	3.74	175.10	51.35
4009.00	145.72	47.18	281.45	17	4.64	761.11	88.82
251.00	136.23	42.46	186.72	14	4.71	90.08	30.47
136.00	119.99	31.48	88.65	12	8.38	59.84	22.41

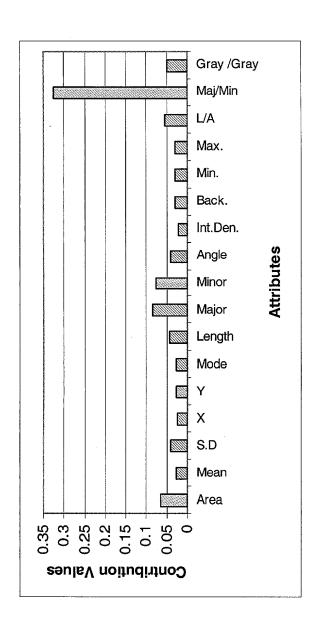


FIGURE 19

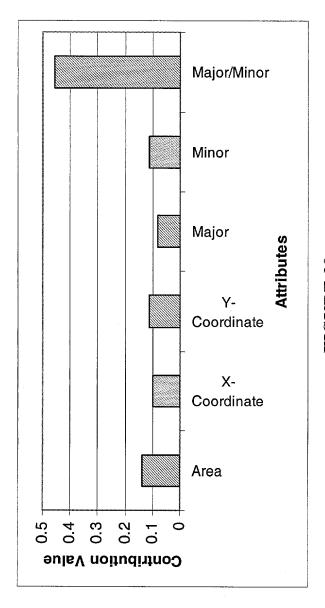


FIGURE 20

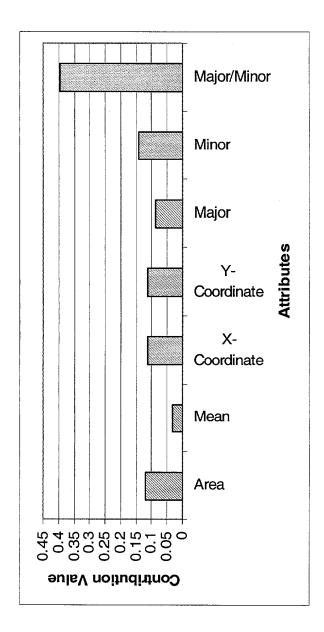


FIGURE 21

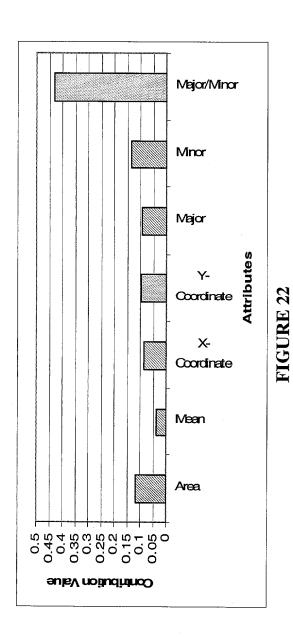


FIGURE 23

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FIGURE 24

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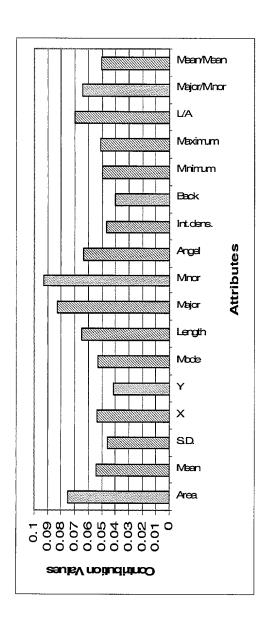


FIGURE 26

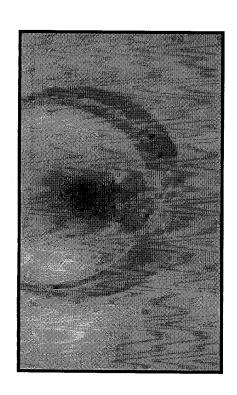


FIGURE 27



FIGURE 29

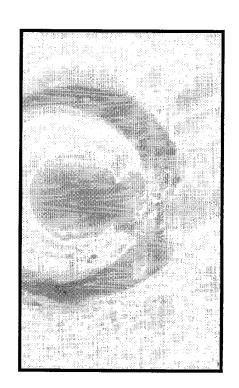


FIGURE 28

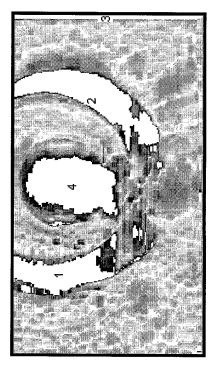


FIGURE 30

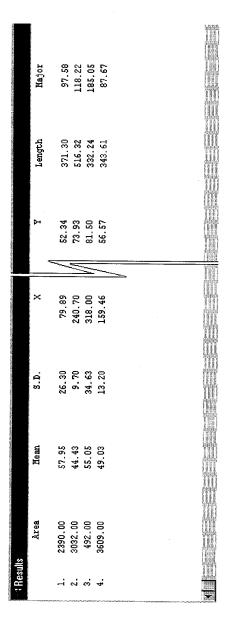


FIGURE 31

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FIGURE 32

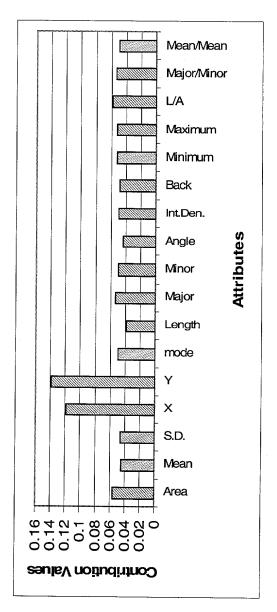


FIGURE 33



FIGURE 34

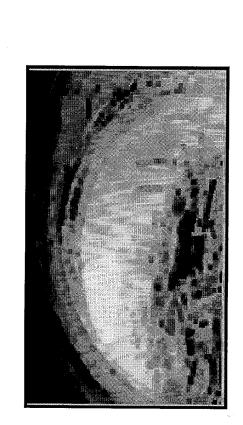


FIGURE 36



FIGURE 35



FIGURE 37



Major	109.69 17.59 18.30 98.21	
Length	715.94 55.60 70.43 870.18	
	37.85 53.11 66.67 114.82	
X	55.52 161.80 175.35 69.02	
s.D.	22.30 14.66 16.32 34.10	
Mean S.D.	80.03 22.30 68.61 14.66 71.94 16.32 96.81 34.10	
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FIGURE 40

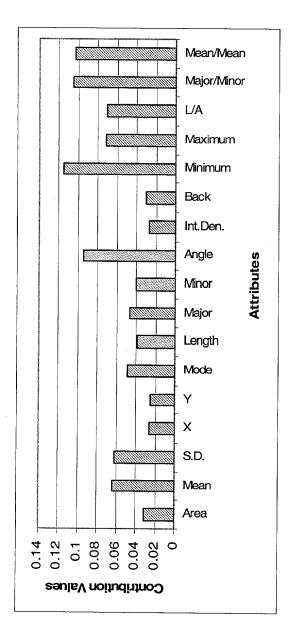


FIGURE 41

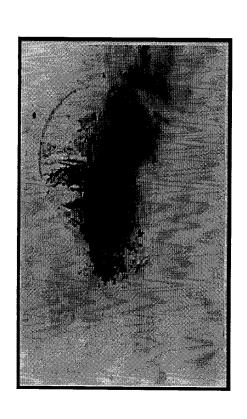


FIGURE 42



FIGURE 44



FIGURE 43



FIGURE 45

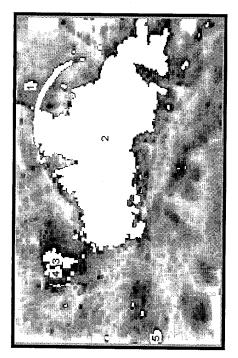


FIGURE 46

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	S.D.	55.80	4.15	2.34	6.10	
	Nean	90.84	51.68	49.22	53.85	
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FIGURE 47

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FIGURE 48

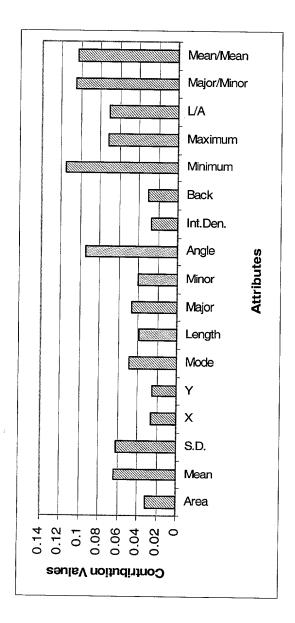


TABLE 49

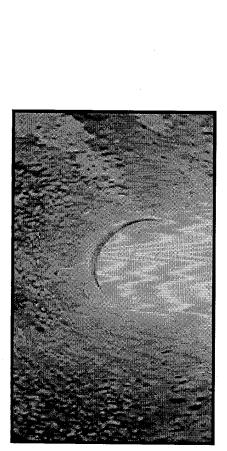


FIGURE 50

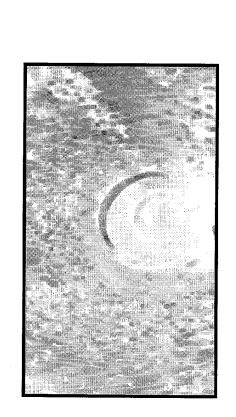


FIGURE 52

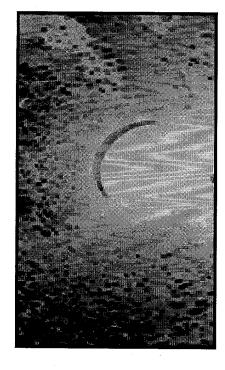


FIGURE 51

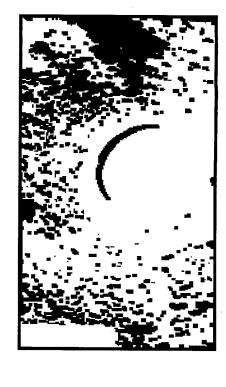


FIGURE 53

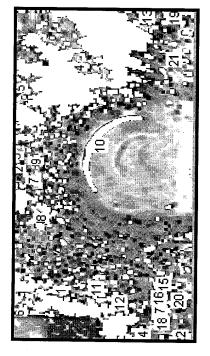


FIGURE 54

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	Area	Mean	S.D.	×	Ā	Length	Major
-i	2661.00	47.26	8.76	45.90	42.65	940.85	92.06
,	75.00	46.45	12.18	158.67	5.32	49.36	12.07
က်	73.00	46.25	9.46	171.18	3.55	48.28	15.81
4.	6979.00	65.86	23.03	254.26	56.42	1431.09	127.44
S.	151.00	50.42	10.84	234.46	6.10	76.77	16.84
	63.00	42.86	3.46	24.00	7.59	43.46	14.36
۲.	147.00	52.41	17.64	148.17	18.16	73.60	16.54
œ.	315.00	49.34	12.66	113.77	25.18	172.99	22.07
9.	77.00	45.30	10.39	166.31	20.26	51.46	11.32
	524.00	61.37	24.96	181.44	75.00	212.65	46.55
ij	77.00	44.99	6.90	47.45	72.77	49.46	16.56
2.	51.00	43.12	3.41	34.14	92.31	34.97	11.00
e,	96.00	61.27	22.01	303.91	113.18	44.73	15.06
4.	61.00	44.38	3.60	2.20	112.74	31.90	12.69
5.	186.00	51.23	16.69	52.42	129.34	115.15	19.32
٠	86.00	55.33	14.79	39.26	125.14	39.80	15.82
r.,	82.00	43.87	5.03	25.78	126.00	52.87	15.35
18.	97.00	44.66	5.31	15.62	128.27	57.46	12.62
9.	187.00	53.84	19.02	302.75	136.37	98.77	24.82
	170.00	60.12	19.48	37.32	142.69	65.94	21.02
<u>-</u>	59.00	99.09	30.58	262.57	136.07	33.21	10.31
73	89.00	46.31	7.62	2.34	144.67	55.31	17.46

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FIGURE 56

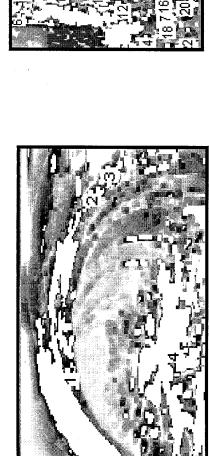


FIGURE 58



FIGURE 59

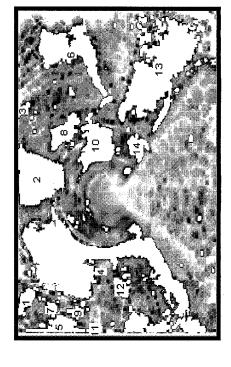


FIGURE 60

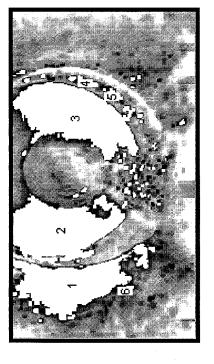


FIGURE 61

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#### FIGURE 62A

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#### FIGURE 63A

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#### FIGURE 63B

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## FIGURE 64A

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FIGURE 64B

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### FIGURE 65A

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FIGURE 65B

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FIGURE 66

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FIGURE 67

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FIGURE 68

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FIGURE 69

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FIGURE 70

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FIGURE 71

<u>F</u> ile	<u>E</u> dit F <u>o</u> rmat <u>H</u> elp	i de la composition de la composition de la composition de la composition de la composition de la composition Composition de la composition della compositio		
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FIGURE 72

AA	AB	AC menu	AD	AE	AF	AG
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FIGURE 73

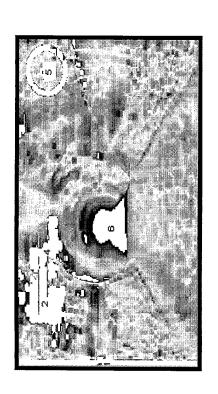


FIGURE 74



FIGURE 75

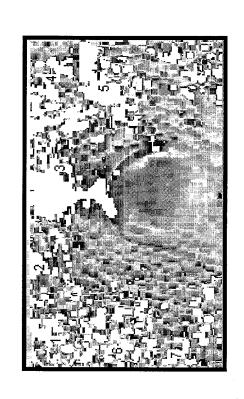


FIGURE 76

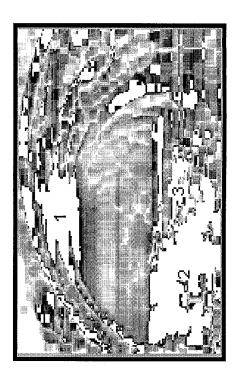


FIGURE 77

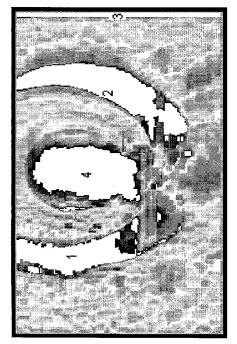


FIGURE 78

<u>F</u> ile	<u>E</u> dit F <u>o</u> rmat <u>H</u> elp	esteranocomo (1555)			
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#### FIGURE 79A

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22	Infiltration			
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27		Else		
28		Else		
29		Else		
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31				
	Infiltration			
33	Infiltration			
34		Else		
35		Else		
36				

FIGURE 79B

<u>F</u> ile	<u>E</u> dit F <u>o</u> rmat <u>H</u> elp			МСН (АДДИ) — странција жавиристви
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9		Else		
10		Else		
11		Else		
12		Else		
13		Else		
14		Else		
15		Else		
16				

## FIGURE 80A

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	E	F	G
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19	Else		
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21	Else		
22	Else		
23	Else		
24	Else		***************************************
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31	•		***************************************
32 Infiltration			
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34	Else		
35	Else		
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<u>F</u> ile	<u>E</u> dit F <u>o</u> rmat <u>H</u> elp				
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#### FIGURE 81A

$\mathbf{D}_{\mathrm{constant}}$	E	F	G
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22	Else		
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24	Else		
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32 Infiltration			
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34	Else		
35	Else		
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#### FIGURE 81B

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13		Else							
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#### FIGURE 82A

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36									

FIGURE 82B

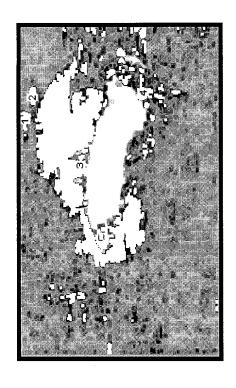


FIGURE 84

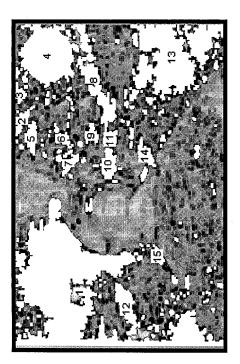


FIGURE 83

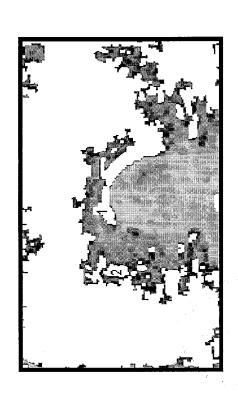


FIGURE 85

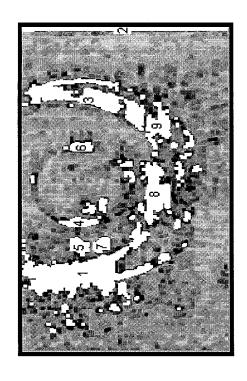


FIGURE 87

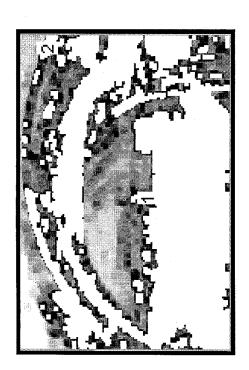


FIGURE 86

<u>File Edit Format Help</u>	)		
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#### FIGURE 88A

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#### FIGURE 89A

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21		Else			

### FIGURE 90A

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26     Else       28     Else       29     Else       30     Else       31     Else       32     Else       33     Crack       Else     Else       36     Else       37     Else       38     Else       39     Else		Else	·	
27	25	Else		
28         Else           29         Else           30         Else           31         Else           32         Else           33         Crack           34         Else           35         Else           36         Else           37         Else           38         Else           39         Else	26			
29     —     Else       30     —     —       31     —     Else       32     —     Else       33     Crack     —       34     —     Else       35     —     Else       36     —     Else       37     —     Else       38     —     Else       39     —     Else	27			
30   Signature   S	28	Else		
31     Else       32     Else       33     Crack       34     Else       35     Else       36     Else       37     Else       38     Else       39     Else		Else		
32     —     Else       33     Crack     —       34     —     Else       35     —     Else       36     —     Else       37     —     Else       38     —     Else       39     —     Else	30			
33     Crack       34     Else       35     Else       36     Else       37     Else       38     Else       39     Else				
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		Else	<b>.</b>	••••••••••••••••••••••••••••••••••••••
	40	Else		
41				
42	42			

FIGURE 90B

AB	AC	l AD AE	Æ	AG	AH	Al	AJ	AK	AL
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18		Else		*					
19		Else					***************************************		
20		Else							
21		Else	\$			<u></u>	***************************************		
22									

#### FIGURE 91A

	AB	AC	AD	AE	ĄF	AG	AH	Al	.AJ	AK	AL
23											
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25				Else							
26											
27											
28			equal								Else
29				Else							
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31											
32				Else			<u> </u>				
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35	***************************************			Else							
36				Else							
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38				Else				***************************************			
39				Else					ļ		<u></u>
40				Else					ļ		
41									N. W. W. W. W. W. W. W. W. W. W. W. W. W.		

FIGURE 91B

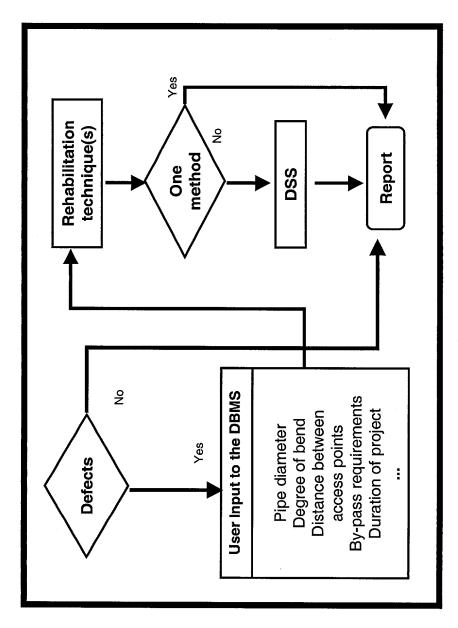


FIGURE 92

×	A								X				X	7									
	Description	Database serial number	Commercial name of rehabilitation technique	Maximum allowable distance between access points to the host pipe	Maximum degree of bends of the host pipe	Cost of product	Duration to install 500 (m) of pipe in weeks	Years in business of supplier	Design life of new pipe	Does the supplier have an Office in Canada	Type of access required to the host pipe	Number of KM of product installed by the supplier	Ability of supplier to accomodate none stsndard designs	Phone number	Teld Properties					0 field name can be an to 64 characters (nnd. inclining snafes.	Press F1 for help on field names.		
	Data Type	AutoNumber	Text	Number	Number	Number	Number	Number	Number	Text	Text	Number	Number	Number	Field								
🏢 products : Table	Field Name	ProductID	Method of repair	Maximum distance between access points	Maximum degree of bends	Average cost	Average duration	Number of years in business	Life expectency	Local experience	Access type	Ength of product installed	Inovation	Coordinates		General Log(up	Field Size Long Integer	ies	Format	Caption Product ID	Indexed Yes (No Duplicates)		

# FIGURE 93

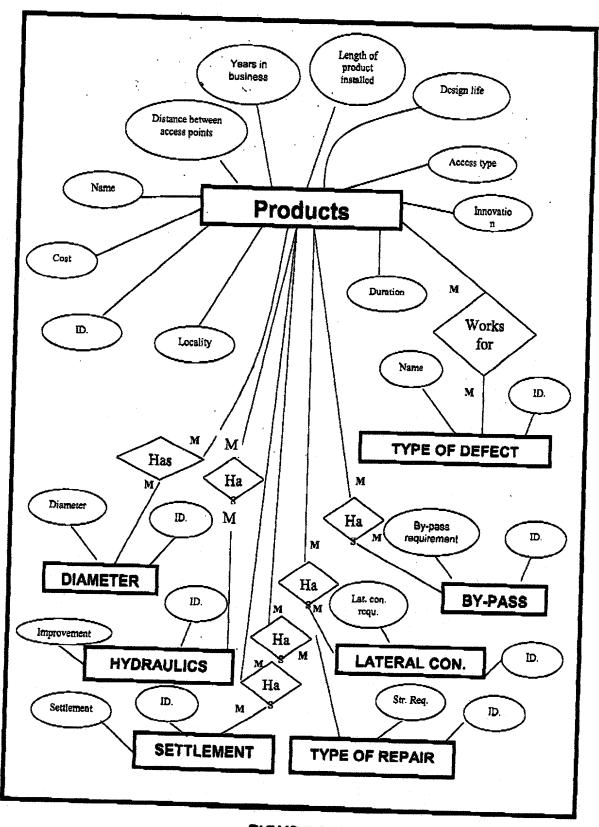


FIGURE 94

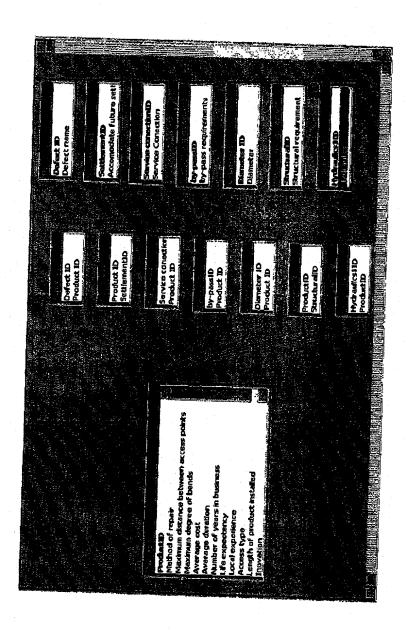


FIGURE 95

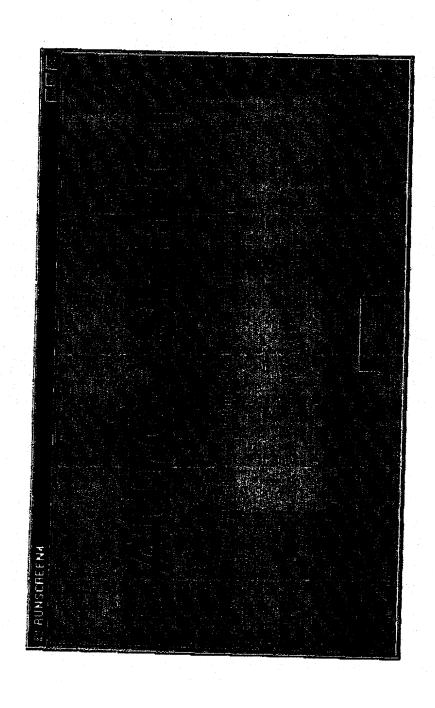


FIGURE 96

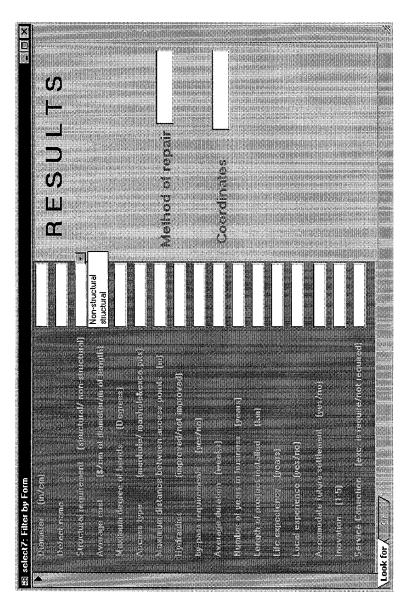


FIGURE 97

in your analysis	Years in business	☐ Length of product installed	llon	
u want to consider	Aearsi	☐ Length	T Innovation	Next
Which attributes do you want to consider in your analysis	Cost	☐ Duration	☐ Life expectancy	

FIGURE 98

project			Next	
e cost of				
What, in your opinion, is the most acceptable cost of project?	(action)			
the most	(i.e. 100 % satisfaction)			
pinion, is	ei E			
, in your c		erri January erri January Grand Polymer Grand Polymer Grand Polymer Grand Polymer	Add	
ğ				ı

FIGURE 99

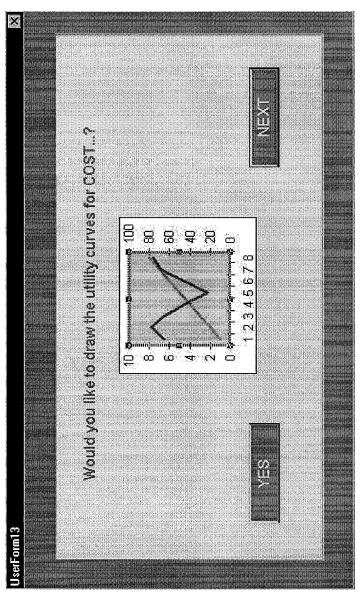
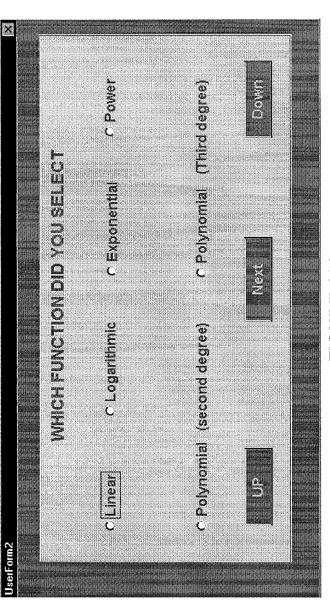


FIGURE 100



**FIGURE 101** 

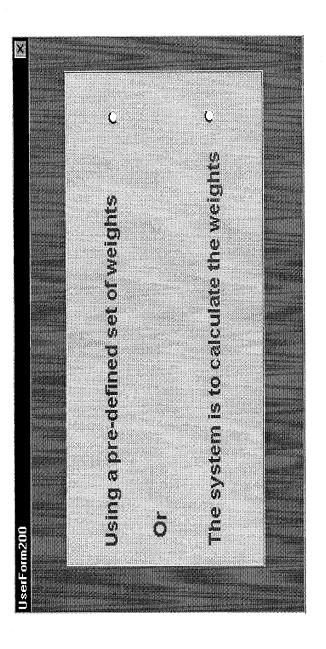


FIGURE 102

UserForm201			×
Cost		Years in business	
Duration		Length of product installed	
Life expectancy		Innovation	
Retrive file	Load pre-calculated weights	Enter pre-defined weights	

FIGURE 103

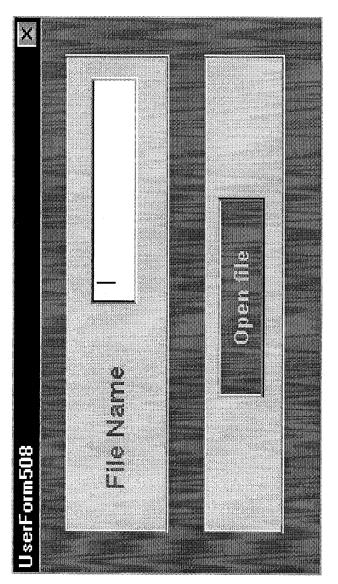


FIGURE 104

Cost	Duration	Years in business	Life expectancy	Length of product installed	Innovation	
So l	<u> </u>					
Duration	1.00		STATE OF THE STATE			
Years in business		1.00				
Life expectancy			1.00			
Life Length of expectancy product installed				1 Cump (1)		
Innovation	<u></u>		L		1.0	

FIGURE 105

Weight	Weignt	Weight	Weight CR	Length of weight Weight	Weight	
<u> </u>			Life expectancy	Ø	Innovation	

FIGURE 106

E UTILITIES					
OVERALL RELATIVE UTILITIES	Alternative # 1	Alternative # 2	Alternative # 3	Alternative # 4	

FIGURE 107

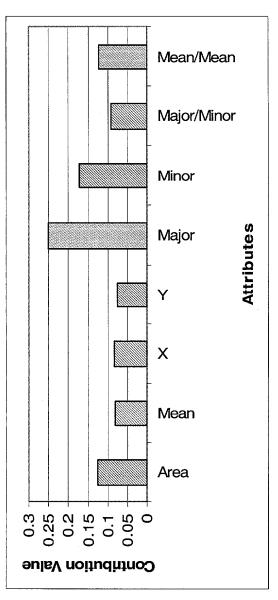


FIGURE 108

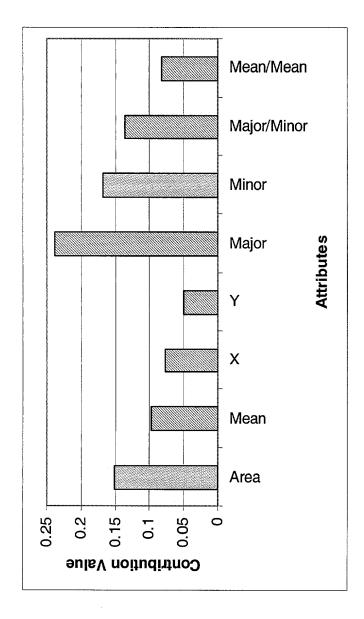


FIGURE 109

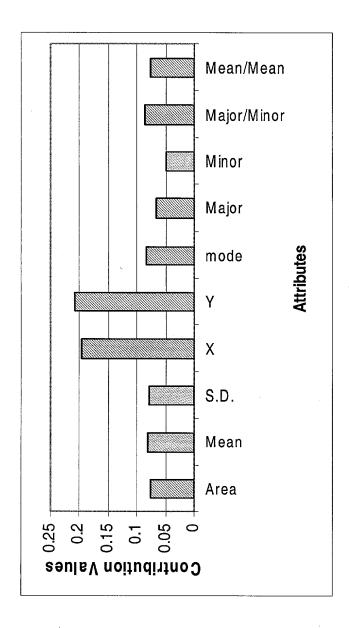


FIGURE 110

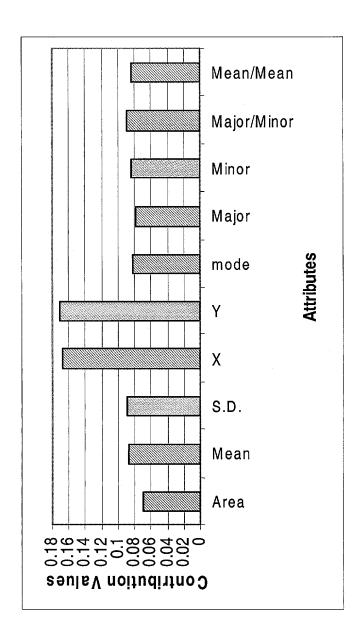


FIGURE 111

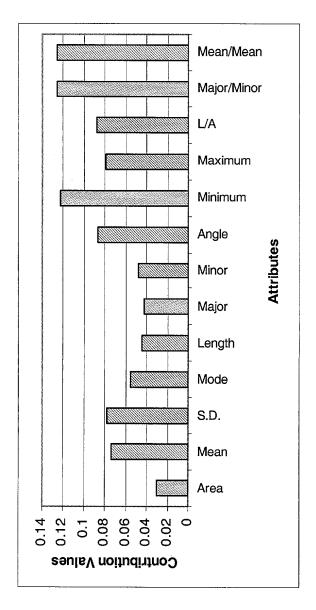
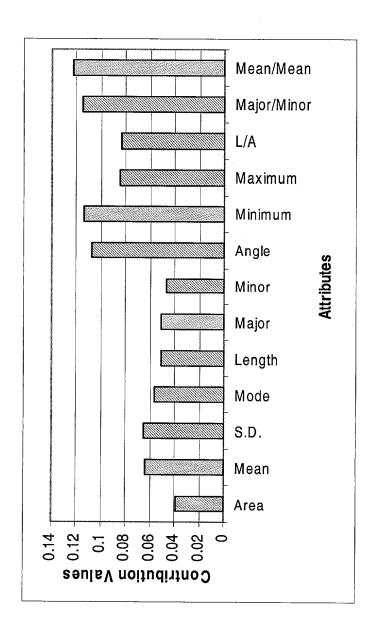


FIGURE 112





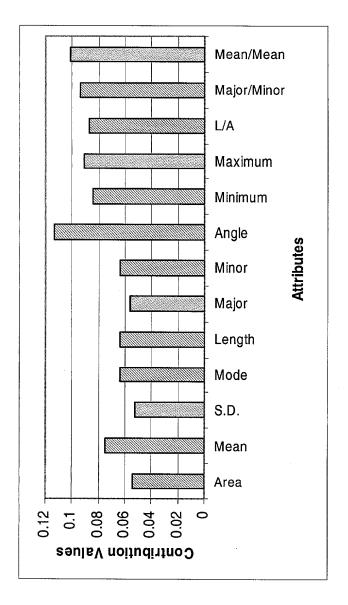


FIGURE 114

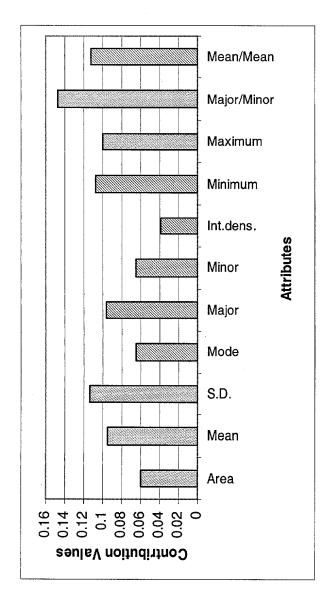


FIGURE 115

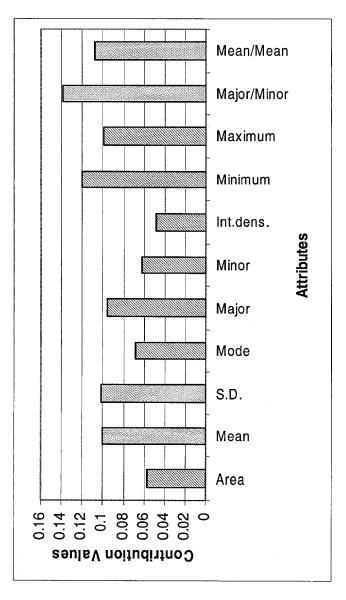


FIGURE 116

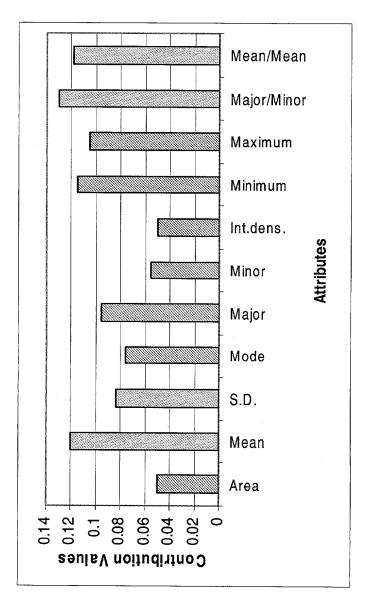


FIGURE 117

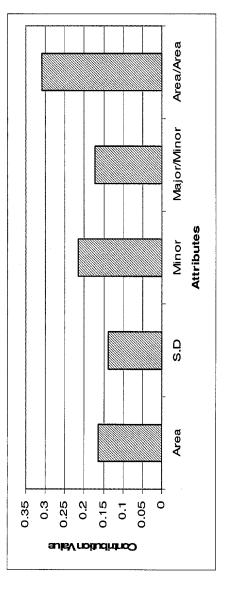


FIGURE 118

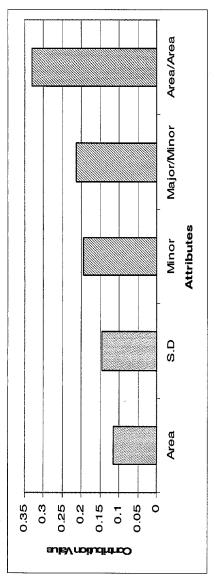


FIGURE 119

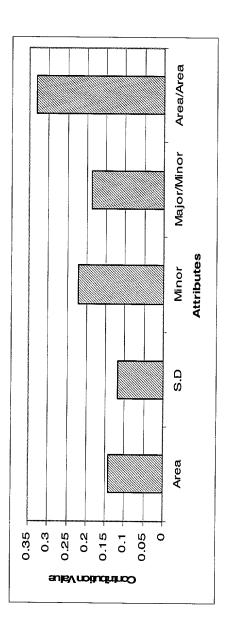


FIGURE 120